

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Stantec
1060 Andrew Drive
Suite 140
West Chester PA 19380

Report Date: January 31, 2017

Project: MHICSubmittal Date: 01/19/2017
Group Number: 1756832
PO Number: 213402428
State of Sample Origin: PAClient Sample DescriptionTB-20170118 Water
MH-A-1(3.0) Grab Soil
MH-A-2(5.0) Grab Soil
MH-A-3(3.0) Grab Soil
MH-A-4(2.0) Grab Soil
MH-A-5(3.0) Grab Soil
MH-A-6(2.0) Grab Soil
MH-A-7(3.0) Grab Soil
MH-A-8(5.0) Grab Soil
MH-A-9(3.0) Grab Soil
MH-A-10(2.0) Grab Soil
MH-A-10(3.0) Grab Soil
MH-A-11(5.0) Grab Soil
MH-A-12(2.0) Grab Soil
MH-A-12(3.0) Grab Soil
MH-A-13(2.0) Grab Soil
MH-A-14(2.0) Grab Soil
MH-A-15(3.0) Grab Soil
MH-A-16(5.0) Grab Soil

Lancaster Labs

(LL) #8797795
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The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>. To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To Stantec
Electronic Copy To StantecAttn: Andrew Bradley
Attn: Mark Schaeffer

Respectfully Submitted,



Amek Carter
Specialist

(717) 556-7252

Sample Description: TB-20170118 Water
213402428

LL Sample # WW 8797795
LL Group # 1756832
Account # 16657

Project Name: MHIC

Collected: 01/12/2017

Stantec

Submitted: 01/19/2017 16:40

1060 Andrew Drive

Reported: 01/31/2017 19:40

Suite 140

West Chester PA 19380

TB018

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Isopropylbenzene	98-82-8	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.5	1
10945	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	UST Unleaded + TMBs	SW-846 8260B	1	Z170232AA	01/23/2017 20:35	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z170232AA	01/23/2017 20:35	Hu Yang	1

Sample Description: MH-A-1(3.0) Grab Soil
213402428

LL Sample # SW 8797796
LL Group # 1756832
Account # 16657

Project Name: MHIC

Collected: 01/18/2017 08:40 by DH

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Submitted: 01/19/2017 16:40

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MHA01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Benzene	71-43-2	N.D.	29	47.87
10237	Ethylbenzene	100-41-4	N.D.	58	47.87
10237	Isopropylbenzene	98-82-8	N.D.	58	47.87
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	29	47.87
10237	Naphthalene	91-20-3	N.D.	58	47.87
10237	Toluene	108-88-3	N.D.	58	47.87
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	58	47.87
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	58	47.87
10237	Xylene (Total)	1330-20-7	N.D.	58	47.87

Reporting limits were raised due to interference from the sample matrix.

GC Volatiles		SW-846 8015B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	300	12	487.33

Wet Chemistry		SW-846 9045D modified	Std. Units	Std. Units
00394	pH in soil	n.a.	8.06	0.0100
	The pH was measured in water at 20.3 C.			

Wet Chemistry		SM 2540 G-1997	%
00111	Moisture	n.a.	17.9 Q8
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.			

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	UST Unleaded 8260+TMBs (Soil)	SW-846 8260B	1	Q170301AA	01/30/2017 11:27	Kevin A Sposito	47.87
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201702144127	01/18/2017 08:40	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201702144127	01/18/2017 08:40	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201702144127	01/18/2017 08:40	Client Supplied	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	17026A31B	01/28/2017 00:42	Marie D Beamenderfer	487.33

Sample Description: MH-A-1(3.0) Grab Soil
213402428

LL Sample # SW 8797796
LL Group # 1756832
Account # 16657

Project Name: MHIC

Collected: 01/18/2017 08:40 by DH

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MHA01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201702144135	01/21/2017 15:18	Katelyn C Shober	n.a.
00394	pH in soil	SW-846 9045D modified	1	17026039402A	01/26/2017 20:15	Luz M Groff	1
00111	Moisture	SM 2540 G-1997	1	17027820003A	01/27/2017 13:29	Larry E Bevins	1

Sample Description: **MH-A-2 (5.0) Grab Soil**
213402428

LL Sample # **SW 8797797**
LL Group # **1756832**
Account # **16657**

Project Name: **MHIC**

Collected: 01/18/2017 09:00 by DH

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MHA02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Benzene	71-43-2	N.D.	0.4	0.73
10237	Ethylbenzene	100-41-4	N.D.	0.9	0.73
10237	Isopropylbenzene	98-82-8	N.D.	0.9	0.73
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.4	0.73
10237	Naphthalene	91-20-3	N.D.	0.9	0.73
10237	Toluene	108-88-3	N.D.	0.9	0.73
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.9	0.73
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.9	0.73
10237	Xylene (Total)	1330-20-7	N.D.	0.9	0.73
GC	Volatiles	SW-846 8015B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	2.4	0.6	24.34
Wet Chemistry	SW-846 9045D modified	Std. Units	Std. Units		
00394	pH in soil	n.a.	7.73	0.0100	1
	The pH was measured in water at 20.3 C.				
Wet Chemistry	SM 2540 G-1997	%	%		
00111	Moisture	n.a.	18.4 Q8	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.				

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	UST Unleaded 8260+TMBs (Soil)	SW-846 8260B	1	X170301AA	01/30/2017 15:31	Linda C Pape	0.73
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201702144127	01/18/2017 09:00	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201702144127	01/18/2017 09:00	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201702144127	01/18/2017 09:00	Client Supplied	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	17026A31A	01/26/2017 18:48	Marie D Beamenderfer	24.34

Sample Description: MH-A-2 (5.0) Grab Soil
213402428

LL Sample # SW 8797797
LL Group # 1756832
Account # 16657

Project Name: MHIC

Collected: 01/18/2017 09:00 by DH

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MHA02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201702144135	01/21/2017 15:24	Katelyn C Shober	n.a.
00394	pH in soil	SW-846 9045D modified	1	17026039402A	01/26/2017 20:15	Luz M Groff	1
00111	Moisture	SM 2540 G-1997	1	17027820003A	01/27/2017 13:29	Larry E Bevins	1

Sample Description: **MH-A-3 (3.0) Grab Soil**
213402428

LL Sample # **SW 8797798**
LL Group # **1756832**
Account # **16657**

Project Name: **MHIC**

Collected: 01/18/2017 09:20 by DH

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MHA03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Benzene	71-43-2	N.D.	0.4	0.72
10237	Ethylbenzene	100-41-4	N.D.	0.9	0.72
10237	Isopropylbenzene	98-82-8	N.D.	0.9	0.72
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.4	0.72
10237	Naphthalene	91-20-3	0.9 J	0.9	0.72
10237	Toluene	108-88-3	N.D.	0.9	0.72
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.9	0.72
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.9	0.72
10237	Xylene (Total)	1330-20-7	1 J	0.9	0.72
GC	Volatiles	SW-846 8015B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	100	6.0	248.02
Wet Chemistry	SW-846 9045D modified	Std. Units	Std. Units		
00394	pH in soil	n.a.	8.08	0.0100	1
	The pH was measured in water at 20.2 C.				
Wet Chemistry	SM 2540 G-1997	%	%		
00111	Moisture	n.a.	18.0 Q8	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.				

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	UST Unleaded 8260+TMBs (Soil)	SW-846 8260B	1	X170302AA	01/31/2017 04:23	Stephen C Nolte	0.72
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201702144127	01/18/2017 09:20	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201702144127	01/18/2017 09:20	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201702144127	01/18/2017 09:20	Client Supplied	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	17026A31B	01/27/2017 21:35	Marie D Beamenderfer	248.02

Sample Description: MH-A-3 (3.0) Grab Soil
213402428

LL Sample # SW 8797798
LL Group # 1756832
Account # 16657

Project Name: MHIC

Collected: 01/18/2017 09:20 by DH

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MHA03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201702144135	01/21/2017 15:09	Katelyn C Shober	n.a.
00394	pH in soil	SW-846 9045D modified	1	17026039402A	01/26/2017 20:15	Luz M Groff	1
00111	Moisture	SM 2540 G-1997	1	17027820003A	01/27/2017 13:29	Larry E Bevins	1

Sample Description: MH-A-4 (2.0) Grab Soil
213402428

LL Sample # SW 8797799
LL Group # 1756832
Account # 16657

Project Name: MHIC

Collected: 01/18/2017 09:40 by DH

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MHA04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Benzene	71-43-2	N.D.	31	52.47
10237	Ethylbenzene	100-41-4	N.D.	63	52.47
10237	Isopropylbenzene	98-82-8	N.D.	63	52.47
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	31	52.47
10237	Naphthalene	91-20-3	N.D.	63	52.47
10237	Toluene	108-88-3	N.D.	63	52.47
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	63	52.47
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	63	52.47
10237	Xylene (Total)	1330-20-7	N.D.	63	52.47

Reporting limits were raised due to interference from the sample matrix.

GC Volatiles	SW-846 8015B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	14	5.9
				245.82

Wet Chemistry	SW-846 9045D modified	Std. Units	Std. Units	
00394	pH in soil	n.a.	4.57	0.0100
	The pH was measured in water at 20.1 C.			1

Wet Chemistry	SM 2540 G-1997	%	%	
00111	Moisture	n.a.	16.4 Q8	0.50
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.			1

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	UST Unleaded 8260+TMBs (Soil)	SW-846 8260B	1	Q170301AA	01/30/2017 12:12	Kevin A Sposito	52.47
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201702144127	01/18/2017 09:40	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201702144127	01/18/2017 09:40	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201702144127	01/18/2017 09:40	Client Supplied	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	17026A31B	01/27/2017 23:23	Marie D Beamenderfer	245.82

Sample Description: MH-A-4(2.0) Grab Soil
213402428

LL Sample # SW 8797799
LL Group # 1756832
Account # 16657

Project Name: MHIC

Collected: 01/18/2017 09:40 by DH

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MHA04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201702144135	01/21/2017 15:27	Katelyn C Shober	n.a.
00394	pH in soil	SW-846 9045D modified	1	17026039402B	01/26/2017 20:15	Luz M Groff	1
00111	Moisture	SM 2540 G-1997	1	17027820003A	01/27/2017 13:29	Larry E Bevins	1

Sample Description: **MH-A-5(3.0) Grab Soil**
213402428

LL Sample # **SW 8797800**
LL Group # **1756832**
Account # **16657**

Project Name: **MHIC**

Collected: 01/18/2017 10:00 by DH

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Suite 140

Reported: 01/31/2017 19:40

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MHA05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Benzene	71-43-2	N.D.	29	46.48
10237	Ethylbenzene	100-41-4	N.D.	58	46.48
10237	Isopropylbenzene	98-82-8	N.D.	58	46.48
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	29	46.48
10237	Naphthalene	91-20-3	N.D.	58	46.48
10237	Toluene	108-88-3	N.D.	58	46.48
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	58	46.48
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	58	46.48
10237	Xylene (Total)	1330-20-7	N.D.	58	46.48

Reporting limits were raised due to interference from the sample matrix.

GC Volatiles	SW-846 8015B modified	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	12 J
	Reporting limits were raised due to sample foaming.		

Wet Chemistry	SW-846 9045D modified	Std. Units	
00394	pH in soil	n.a.	11.2 J
	The pH was measured in water at 20.4 C.		

Wet Chemistry	SM 2540 G-1997	%	
00111	Moisture	n.a.	20.5 Q8
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.		

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	UST Unleaded 8260+TMBs (Soil)	SW-846 8260B	1	Q170301AA	01/30/2017 12:35	Kevin A Sposito	46.48
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201702144127	01/18/2017 10:00	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201702144127	01/18/2017 10:00	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201702144127	01/18/2017 10:00	Client Supplied	1

Sample Description: MH-A-5(3.0) Grab Soil
213402428

LL Sample # SW 8797800
LL Group # 1756832
Account # 16657

Project Name: MHIC

Collected: 01/18/2017 10:00 by DH

Stantec

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Reported: 01/31/2017 19:40

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MHA05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	17026A31B	01/28/2017 00:06	Marie D Beamenderfer	467.29
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201702144135	01/21/2017 15:14	Katelyn C Shober	n.a.
00394	pH in soil	SW-846 9045D modified	1	17026039402B	01/26/2017 20:15	Luz M Groff	1
00111	Moisture	SM 2540 G-1997	2	17029820001A	01/30/2017 10:24	William C Schwebel	1

Sample Description: **MH-A-6 (2.0) Grab Soil**
213402428

LL Sample # **SW 8797801**
LL Group # **1756832**
Account # **16657**

Project Name: **MHIC**

Collected: 01/18/2017 10:40 by DH

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Reported: 01/31/2017 19:40

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MHA06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Benzene	71-43-2	N.D.	41	71.31
10237	Ethylbenzene	100-41-4	N.D.	83	71.31
10237	Isopropylbenzene	98-82-8	N.D.	83	71.31
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	41	71.31
10237	Naphthalene	91-20-3	N.D.	83	71.31
10237	Toluene	108-88-3	330 J	83	71.31
10237	1,2,4-Trimethylbenzene	95-63-6	360 J	83	71.31
10237	1,3,5-Trimethylbenzene	108-67-8	170 J	83	71.31
10237	Xylene (Total)	1330-20-7	280 J	83	71.31

Reporting limits were raised due to interference from the sample matrix.

GC Volatiles	SW-846 8015B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	5.6
	Reporting limits were raised due to sample foaming.			241.78

Wet Chemistry	SW-846 9045D modified	Std. Units	Std. Units	
00394	pH in soil	n.a.	11.8 J	0.0100
	The pH was measured in water at 20.1 C.			1

Wet Chemistry	SM 2540 G-1997	%	%	
00111	Moisture	n.a.	13.8 Q8	0.50
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.			1

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	UST Unleaded 8260+TMBs (Soil)	SW-846 8260B	1	Q170301AA	01/30/2017 12:58	Kevin A Sposito	71.31
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201702144127	01/18/2017 10:40	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201702144127	01/18/2017 10:40	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201702144127	01/18/2017 10:40	Client Supplied	1

Sample Description: MH-A-6 (2.0) Grab Soil
213402428

LL Sample # SW 8797801
LL Group # 1756832
Account # 16657

Project Name: MHIC

Collected: 01/18/2017 10:40 by DH

Stantec

1060 Andrew Drive

Submitted: 01/19/2017 16:40

Suite 140

Reported: 01/31/2017 19:40

West Chester PA 19380

MHA06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	17026A31B	01/27/2017 19:28	Marie D Beamenderfer	241.78
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201702144135	01/21/2017 15:25	Katelyn C Shober	n.a.
00394	pH in soil	SW-846 9045D modified	1	17026039402B	01/26/2017 20:15	Luz M Groff	1
00111	Moisture	SM 2540 G-1997	1	17027820003A	01/27/2017 13:29	Larry E Bevins	1

Sample Description: **MH-A-7(3.0) Grab Soil**
213402428

LL Sample # **SW 8797802**
LL Group # **1756832**
Account # **16657**

Project Name: **MHIC**

Collected: 01/18/2017 10:50 by DH

Stantec

1060 Andrew Drive

Submitted: 01/19/2017 16:40

Suite 140

Reported: 01/31/2017 19:40

West Chester PA 19380

MHA07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Benzene	71-43-2	N.D.	0.5	0.89
10237	Ethylbenzene	100-41-4	N.D.	1	0.89
10237	Isopropylbenzene	98-82-8	N.D.	1	0.89
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.89
10237	Naphthalene	91-20-3	N.D.	1	0.89
10237	Toluene	108-88-3	N.D.	1	0.89
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.89
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.89
10237	Xylene (Total)	1330-20-7	1 J	1	0.89
GC	Volatiles	SW-846 8015B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	6.6	0.6	23.7
Wet Chemistry	SW-846 9045D modified	Std. Units	Std. Units		
00394	pH in soil The pH was measured in water at 20.2 C.	n.a.	7.78	0.0100	1
Wet Chemistry	SM 2540 G-1997	%	%		
00111	Moisture Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.	n.a.	15.4 Q8	0.50	1

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	UST Unleaded 8260+TMBs (Soil)	SW-846 8260B	1	X170301AA	01/30/2017 15:54	Linda C Pape	0.89
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201702144127	01/18/2017 10:50	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201702144127	01/18/2017 10:50	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201702144127	01/18/2017 10:50	Client Supplied	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	17026A31A	01/26/2017 23:08	Marie D Beamenderfer	23.7

Sample Description: MH-A-7(3.0) Grab Soil
213402428

LL Sample # SW 8797802
LL Group # 1756832
Account # 16657

Project Name: MHIC

Collected: 01/18/2017 10:50 by DH

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Suite 140

Reported: 01/31/2017 19:40

West Chester PA 19380

MHA07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201702144135	01/21/2017 15:23	Katelyn C Shober	n.a.
00394	pH in soil	SW-846 9045D modified	1	17026039402B	01/26/2017 20:15	Luz M Groff	1
00111	Moisture	SM 2540 G-1997	1	17027820003A	01/27/2017 13:29	Larry E Bevins	1

Sample Description: MH-A-8(5.0) Grab Soil
213402428

LL Sample # SW 8797803
LL Group # 1756832
Account # 16657

Project Name: MHIC

Collected: 01/18/2017 11:00 by DH

Stantec

1060 Andrew Drive

Submitted: 01/19/2017 16:40

Suite 140

Reported: 01/31/2017 19:40

West Chester PA 19380

MHA08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg		ug/kg	
10237	Benzene	71-43-2	1	J	0.5	0.88
10237	Ethylbenzene	100-41-4	2	J	1	0.88
10237	Isopropylbenzene	98-82-8	N.D.		1	0.88
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	0.88
10237	Naphthalene	91-20-3	2	J	1	0.88
10237	Toluene	108-88-3	2	J	1	0.88
10237	1,2,4-Trimethylbenzene	95-63-6	3	J	1	0.88
10237	1,3,5-Trimethylbenzene	108-67-8	1	J	1	0.88
10237	Xylene (Total)	1330-20-7	12		1	0.88
GC	Volatiles	SW-846 8015B modified	mg/kg		mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.		12	483.09
	Reporting limits were raised due to sample foaming.					
Wet Chemistry		SW-846 9045D modified	Std. Units		Std. Units	
00394	pH in soil	n.a.	11.8	J	0.0100	1
	The pH was measured in water at 20.2 C.					
Wet Chemistry		SM 2540 G-1997	%		%	
00111	Moisture	n.a.	17.3	Q8	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	UST Unleaded 8260+TMBs (Soil)	SW-846 8260B	1	X170301AA	01/30/2017 18:13	Linda C Pape	0.88
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201702144127	01/18/2017 11:00	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201702144127	01/18/2017 11:00	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201702144127	01/18/2017 11:00	Client Supplied	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	17026A31A	01/26/2017 18:12	Marie D Beamenderfer	483.09

Sample Description: MH-A-8(5.0) Grab Soil
213402428

LL Sample # SW 8797803
LL Group # 1756832
Account # 16657

Project Name: MHIC

Collected: 01/18/2017 11:00 by DH

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Suite 140

Reported: 01/31/2017 19:40

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MHA08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201702144135	01/21/2017 15:11	Katelyn C Shober	n.a.
00394	pH in soil	SW-846 9045D modified	1	17026039402B	01/26/2017 20:15	Luz M Groff	1
00111	Moisture	SM 2540 G-1997	1	17027820003A	01/27/2017 13:29	Larry E Bevins	1

Sample Description: **MH-A-9(3.0) Grab Soil**
213402428

LL Sample # **SW 8797804**
LL Group # **1756832**
Account # **16657**

Project Name: **MHIC**

Collected: 01/18/2017 11:10 by DH

Stantec

1060 Andrew Drive

Submitted: 01/19/2017 16:40

Suite 140

Reported: 01/31/2017 19:40

West Chester PA 19380

MHA09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Benzene	71-43-2	N.D.	0.5	0.87
10237	Ethylbenzene	100-41-4	N.D.	1	0.87
10237	Isopropylbenzene	98-82-8	N.D.	1	0.87
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.87
10237	Naphthalene	91-20-3	N.D.	1	0.87
10237	Toluene	108-88-3	N.D.	1	0.87
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.87
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.87
10237	Xylene (Total)	1330-20-7	N.D.	1	0.87
GC	Volatiles	SW-846 8015B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	1.1 J	0.6	25.38
Wet Chemistry	SW-846 9045D modified	Std. Units	Std. Units		
00394	pH in soil The pH was measured in water at 19.8 C.	n.a.	5.93	0.0100	1
Wet Chemistry	SM 2540 G-1997	%	%		
00111	Moisture Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.	n.a.	13.5 Q8	0.50	1

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	UST Unleaded 8260+TMBs (Soil)	SW-846 8260B	1	X170301AA	01/30/2017 16:17	Linda C Pape	0.87
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201702144127	01/18/2017 11:10	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201702144127	01/18/2017 11:10	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201702144127	01/18/2017 11:10	Client Supplied	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	17026A31A	01/26/2017 23:44	Marie D Beamenderfer	25.38

Sample Description: MH-A-9(3.0) Grab Soil
213402428

LL Sample # SW 8797804
LL Group # 1756832
Account # 16657

Project Name: MHIC

Collected: 01/18/2017 11:10 by DH

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MHA09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201702144135	01/21/2017 15:26	Katelyn C Shober	n.a.
00394	pH in soil	SW-846 9045D modified	1	17026039402B	01/26/2017 20:15	Luz M Groff	1
00111	Moisture	SM 2540 G-1997	1	17027820003A	01/27/2017 13:29	Larry E Bevins	1

Sample Description: MH-A-10(2.0) Grab Soil
213402428

LL Sample # SW 8797805
LL Group # 1756832
Account # 16657

Project Name: MHIC

Collected: 01/18/2017 11:25 by DH

Stantec

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Submitted: 01/19/2017 16:40

Suite 140

Reported: 01/31/2017 19:40

West Chester PA 19380

MHA10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Benzene	71-43-2	N.D.	0.5	0.75
10237	Ethylbenzene	100-41-4	N.D.	1	0.75
10237	Isopropylbenzene	98-82-8	N.D.	1	0.75
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.75
10237	Naphthalene	91-20-3	1 J	1	0.75
10237	Toluene	108-88-3	N.D.	1	0.75
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.75
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.75
10237	Xylene (Total)	1330-20-7	1 J	1	0.75

GC Volatiles	SW-846 8015B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	2.4	0.6
				23.99

Wet Chemistry	SW-846 9045D modified	Std. Units	Std. Units	
00394	pH in soil	n.a.	6.75	0.0100
	The pH was measured in water at 20 C.			1

Wet Chemistry	SM 2540 G-1997	%	%	
00111	Moisture	n.a.	21.9 Q8	0.50
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.			1

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	UST Unleaded 8260+TMBs (Soil)	SW-846 8260B	1	X170302AA	01/31/2017 04:46	Stephen C Nolte	0.75
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201702144127	01/18/2017 11:25	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201702144127	01/18/2017 11:25	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201702144127	01/18/2017 11:25	Client Supplied	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	17026A31A	01/27/2017 00:20	Marie D Beamenderfer	23.99

Sample Description: MH-A-10 (2.0) Grab Soil
213402428

LL Sample # SW 8797805
LL Group # 1756832
Account # 16657

Project Name: MHIC

Collected: 01/18/2017 11:25 by DH

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Reported: 01/31/2017 19:40

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MHA10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201702144135	01/21/2017 15:16	Katelyn C Shober	n.a.
00394	pH in soil	SW-846 9045D modified	1	17026039402B	01/26/2017 20:15	Luz M Groff	1
00111	Moisture	SM 2540 G-1997	1	17027820003A	01/27/2017 13:29	Larry E Bevins	1

Sample Description: MH-A-10(3.0) Grab Soil
213402428

LL Sample # SW 8797806
LL Group # 1756832
Account # 16657

Project Name: MHIC

Collected: 01/18/2017 11:35 by DH

Stantec

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Submitted: 01/19/2017 16:40

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Reported: 01/31/2017 19:40

West Chester PA 19380

MH103

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Benzene	71-43-2	N.D.	0.5	0.75
10237	Ethylbenzene	100-41-4	N.D.	0.9	0.75
10237	Isopropylbenzene	98-82-8	N.D.	0.9	0.75
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.75
10237	Naphthalene	91-20-3	3 J	0.9	0.75
10237	Toluene	108-88-3	N.D.	0.9	0.75
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.9	0.75
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.9	0.75
10237	Xylene (Total)	1330-20-7	3 J	0.9	0.75

GC Volatiles	SW-846 8015B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	5.8
	Reporting limits were raised due to sample foaming.			
				240.38

Wet Chemistry	SW-846 9045D modified	Std. Units	Std. Units	
00394	pH in soil	n.a.	5.25	0.0100
	The pH was measured in water at 20.3 C.			
				1

Wet Chemistry	SM 2540 G-1997	%	%	
00111	Moisture	n.a.	17.7	0.50
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.			
				1

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	UST Unleaded 8260+TMBs (Soil)	SW-846 8260B	1	X170301AA	01/30/2017 18:36	Linda C Pape	0.75
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201702144127	01/18/2017 11:35	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201702144127	01/18/2017 11:35	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201702144127	01/18/2017 11:35	Client Supplied	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	17026A31B	01/27/2017 22:11	Marie D Beamenderfer	240.38

Sample Description: MH-A-10(3.0) Grab Soil
213402428

LL Sample # SW 8797806
LL Group # 1756832
Account # 16657

Project Name: MHIC

Collected: 01/18/2017 11:35 by DH

Stantec

1060 Andrew Drive

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Suite 140

Reported: 01/31/2017 19:40

West Chester PA 19380

MH103

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201702144135	01/21/2017 15:21	Katelyn C Shober	n.a.
00394	pH in soil	SW-846 9045D modified	1	17026039402B	01/26/2017 20:15	Luz M Groff	1
00111	Moisture	SM 2540 G-1997	1	17027820003B	01/27/2017 13:29	Larry E Bevins	1

Sample Description: MH-A-11(5.0) Grab Soil
213402428

LL Sample # SW 8797807
LL Group # 1756832
Account # 16657

Project Name: MHIC

Collected: 01/18/2017 11:55 by DH

Stantec

1060 Andrew Drive

Submitted: 01/19/2017 16:40

Suite 140

Reported: 01/31/2017 19:40

West Chester PA 19380

MHA11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Benzene	71-43-2	N.D.	0.8	1.13
10237	Ethylbenzene	100-41-4	N.D.	2	1.13
10237	Isopropylbenzene	98-82-8	N.D.	2	1.13
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.8	1.13
10237	Naphthalene	91-20-3	6 J	2	1.13
10237	Toluene	108-88-3	N.D.	2	1.13
10237	1,2,4-Trimethylbenzene	95-63-6	5 J	2	1.13
10237	1,3,5-Trimethylbenzene	108-67-8	2 J	2	1.13
10237	Xylene (Total)	1330-20-7	9	2	1.13
GC	Volatiles	SW-846 8015B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	6.6	240.62
	Reporting limits were raised due to sample foaming.				
Wet Chemistry		SW-846 9045D modified	Std. Units	Std. Units	
00394	pH in soil	n.a.	7.68	0.0100	1
	The pH was measured in water at 19.9 C.				
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	27.0	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.				

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	UST Unleaded 8260+TMBs (Soil)	SW-846 8260B	1	X170302AA	01/31/2017 05:09	Stephen C Nolte	1.13
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201702144127	01/18/2017 11:55	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201702144127	01/18/2017 11:55	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201702144127	01/18/2017 11:55	Client Supplied	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	17026A31B	01/27/2017 22:47	Marie D Beamenderfer	240.62

Sample Description: MH-A-11(5.0) Grab Soil
213402428

LL Sample # SW 8797807
LL Group # 1756832
Account # 16657

Project Name: MHIC

Collected: 01/18/2017 11:55 by DH

Stantec

1060 Andrew Drive

Submitted: 01/19/2017 16:40

Suite 140

Reported: 01/31/2017 19:40

West Chester PA 19380

MHA11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201702144135	01/21/2017 15:20	Katelyn C Shober	n.a.
00394	pH in soil	SW-846 9045D modified	1	17026039402B	01/26/2017 20:15	Luz M Groff	1
00111	Moisture	SM 2540 G-1997	1	17027820003B	01/27/2017 13:29	Larry E Bevins	1

Sample Description: **MH-A-12(2.0) Grab Soil**
213402428

LL Sample # **SW 8797808**
LL Group # **1756832**
Account # **16657**

Project Name: **MHIC**

Collected: 01/18/2017 12:15 by DH

Stantec

1060 Andrew Drive

Submitted: 01/19/2017 16:40

Suite 140

Reported: 01/31/2017 19:40

West Chester PA 19380

MHA12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Benzene	71-43-2	N.D.	28	46.53
10237	Ethylbenzene	100-41-4	N.D.	57	46.53
10237	Isopropylbenzene	98-82-8	N.D.	57	46.53
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	28	46.53
10237	Naphthalene	91-20-3	N.D.	57	46.53
10237	Toluene	108-88-3	N.D.	57	46.53
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	57	46.53
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	57	46.53
10237	Xylene (Total)	1330-20-7	N.D.	57	46.53

Reporting limits were raised due to interference from the sample matrix.

GC Volatiles	SW-846 8015B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	10 J	6.2
	Reporting limits were raised due to sample foaming.			253.55

Wet Chemistry	SW-846 9045D modified	Std. Units	Std. Units	
00394	pH in soil	n.a.	9.09	0.0100
	The pH was measured in water at 20.1 C.			1

Wet Chemistry	SM 2540 G-1997	%	%	
00111	Moisture	n.a.	17.8	0.50
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.			1

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	UST Unleaded 8260+TMBs (Soil)	SW-846 8260B	1	Q170301AA	01/30/2017 14:06	Kevin A Sposito	46.53
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201702144127	01/18/2017 12:15	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201702144127	01/18/2017 12:15	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201702144127	01/18/2017 12:15	Client Supplied	1

Sample Description: MH-A-12(2.0) Grab Soil
213402428

LL Sample # SW 8797808
LL Group # 1756832
Account # 16657

Project Name: MHIC

Collected: 01/18/2017 12:15 by DH

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MHA12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	17026A31B	01/27/2017 20:59	Marie D Beamenderfer	253.55
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201702144135	01/21/2017 15:08	Katelyn C Shober	n.a.
00394	pH in soil	SW-846 9045D modified	1	17026039402B	01/26/2017 20:15	Luz M Groff	1
00111	Moisture	SM 2540 G-1997	1	17027820003B	01/27/2017 13:29	Larry E Bevins	1

Sample Description: **MH-A-12(3.0) Grab Soil**
213402428

LL Sample # **SW 8797809**
LL Group # **1756832**
Account # **16657**

Project Name: **MHIC**

Collected: 01/18/2017 12:25 by DH

Stantec

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West Chester PA 19380

MH123

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method	Dilution Factor
				Detection Limit	
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Benzene	71-43-2	1 J	0.5	0.76
10237	Ethylbenzene	100-41-4	N.D.	0.9	0.76
10237	Isopropylbenzene	98-82-8	N.D.	0.9	0.76
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.76
10237	Naphthalene	91-20-3	N.D.	0.9	0.76
10237	Toluene	108-88-3	1 J	0.9	0.76
10237	1,2,4-Trimethylbenzene	95-63-6	1 J	0.9	0.76
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.9	0.76
10237	Xylene (Total)	1330-20-7	3 J	0.9	0.76
GC	Volatiles	SW-846 8015B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	12	0.6	23.76
Wet Chemistry		SW-846 9045D modified	Std. Units	Std. Units	
00394	pH in soil	n.a.	4.93	0.0100	1
	The pH was measured in water at 20.1 C.				
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	19.9	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.				

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	UST Unleaded 8260+TMBs (Soil)	SW-846 8260B	1	X170301AA	01/30/2017 18:59	Linda C Pape	0.76
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201702144127	01/18/2017 12:25	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201702144127	01/18/2017 12:25	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201702144127	01/18/2017 12:25	Client Supplied	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	17026A31A	01/27/2017 01:03	Marie D Beamenderfer	23.76

Sample Description: MH-A-12(3.0) Grab Soil
213402428

LL Sample # SW 8797809
LL Group # 1756832
Account # 16657

Project Name: MHIC

Collected: 01/18/2017 12:25 by DH

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MH123

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201702144135	01/21/2017 15:15	Katelyn C Shober	n.a.
00394	pH in soil	SW-846 9045D modified	1	17026039402B	01/26/2017 20:15	Luz M Groff	1
00111	Moisture	SM 2540 G-1997	1	17027820003B	01/27/2017 13:29	Larry E Bevins	1

Sample Description: MH-A-13(2.0) Grab Soil
213402428

LL Sample # SW 8797810
LL Group # 1756832
Account # 16657

Project Name: MHIC

Collected: 01/18/2017 12:35 by DH

Stantec

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Submitted: 01/19/2017 16:40

Suite 140

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West Chester PA 19380

MHA13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/kg	ug/kg	
10237	Benzene	71-43-2	N.D.	0.6	0.97
10237	Ethylbenzene	100-41-4	N.D.	1	0.97
10237	Isopropylbenzene	98-82-8	N.D.	1	0.97
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.6	0.97
10237	Naphthalene	91-20-3	1 J	1	0.97
10237	Toluene	108-88-3	N.D.	1	0.97
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.97
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.97
10237	Xylene (Total)	1330-20-7	N.D.	1	0.97
GC Volatiles		SW-846 8015B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.6	23.97
Wet Chemistry		SW-846 9045D modified	Std. Units	Std. Units	
00394	pH in soil	n.a.	3.90 J	0.0100	1
	The pH was measured in water at 20.2 C.				
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	17.2	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.				

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	UST Unleaded 8260+TMBs (Soil)	SW-846 8260B	1	X170301AA	01/30/2017 16:40	Linda C Pape	0.97
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201702144127	01/18/2017 12:35	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201702144127	01/18/2017 12:35	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201702144127	01/18/2017 12:35	Client Supplied	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	17026A31A	01/27/2017 01:38	Marie D Beamenderfer	23.97

Sample Description: MH-A-13(2.0) Grab Soil
213402428

LL Sample # SW 8797810
LL Group # 1756832
Account # 16657

Project Name: MHIC

Collected: 01/18/2017 12:35 by DH

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MHA13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201702144135	01/21/2017 15:12	Katelyn C Shober	n.a.
00394	pH in soil	SW-846 9045D modified	1	17026039403A	01/26/2017 21:00	Luz M Groff	1
00111	Moisture	SM 2540 G-1997	1	17027820003B	01/27/2017 13:29	Larry E Bevins	1

Sample Description: **MH-A-14(2.0) Grab Soil**
213402428

LL Sample # **SW 8797811**
LL Group # **1756832**
Account # **16657**

Project Name: **MHIC**

Collected: 01/18/2017 12:45 by DH

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MHA14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Benzene	71-43-2	N.D.	49	78.68
10237	Ethylbenzene	100-41-4	N.D.	97	78.68
10237	Isopropylbenzene	98-82-8	N.D.	97	78.68
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	49	78.68
10237	Naphthalene	91-20-3	N.D.	97	78.68
10237	Toluene	108-88-3	N.D.	97	78.68
10237	1,2,4-Trimethylbenzene	95-63-6	1,200	97	78.68
10237	1,3,5-Trimethylbenzene	108-67-8	720	97	78.68
10237	Xylene (Total)	1330-20-7	590	97	78.68

Reporting limits were raised due to interference from the sample matrix.

GC Volatiles	SW-846 8015B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	680	250
	Reporting limits were raised due to sample foaming.			10330.58

Wet Chemistry	SW-846 9045D modified	Std. Units	Std. Units	
00394	pH in soil	n.a.	7.09	0.0100
	The pH was measured in water at 20.1 C.			1

Wet Chemistry	SM 2540 G-1997	%	%	
00111	Moisture	n.a.	18.9	0.50
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.			1

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	UST Unleaded 8260+TMBs (Soil)	SW-846 8260B	1	Q170301AA	01/30/2017 15:16	Kevin A Sposito	78.68
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201702144127	01/18/2017 12:45	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201702144127	01/18/2017 12:45	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201702144127	01/18/2017 12:45	Client Supplied	1

Sample Description: MH-A-14(2.0) Grab Soil
213402428

LL Sample # SW 8797811
LL Group # 1756832
Account # 16657

Project Name: MHIC

Collected: 01/18/2017 12:45 by DH

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Reported: 01/31/2017 19:40

West Chester PA 19380

MHA14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	17026A31B	01/27/2017 20:23	Marie D Beamenderfer	10330.58
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201702144135	01/21/2017 15:17	Katelyn C Shober	n.a.
00394	pH in soil	SW-846 9045D modified	1	17026039403A	01/26/2017 21:00	Luz M Groff	1
00111	Moisture	SM 2540 G-1997	1	17027820003B	01/27/2017 13:29	Larry E Bevins	1

Sample Description: MH-A-15(3.0) Grab Soil
213402428

LL Sample # SW 8797812
LL Group # 1756832
Account # 16657

Project Name: MHIC

Collected: 01/18/2017 12:55 by DH

Stantec

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Submitted: 01/19/2017 16:40

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Reported: 01/31/2017 19:40

West Chester PA 19380

MHA15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Benzene	71-43-2	N.D.	0.6	1.02
10237	Ethylbenzene	100-41-4	4 J	1	1.02
10237	Isopropylbenzene	98-82-8	N.D.	1	1.02
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.6	1.02
10237	Naphthalene	91-20-3	3 J	1	1.02
10237	Toluene	108-88-3	7	1	1.02
10237	1,2,4-Trimethylbenzene	95-63-6	12	1	1.02
10237	1,3,5-Trimethylbenzene	108-67-8	5 J	1	1.02
10237	Xylene (Total)	1330-20-7	24	1	1.02
GC	Volatiles	SW-846 8015B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	14 J	13	520.29
	Reporting limits were raised due to sample foaming.				
Wet Chemistry		SW-846 9045D modified	Std. Units	Std. Units	
00394	pH in soil	n.a.	2.88 J	0.0100	1
	The pH was measured in water at 19.7 C.				
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	20.3	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.				

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	UST Unleaded 8260+TMBs (Soil)	SW-846 8260B	1	X170302AA	01/31/2017 01:41	Stephen C Nolte	1.02
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201702144127	01/18/2017 12:55	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201702144127	01/18/2017 12:55	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201702144127	01/18/2017 12:55	Client Supplied	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	17026A31B	01/28/2017 01:18	Marie D Beamenderfer	520.29

Sample Description: MH-A-15(3.0) Grab Soil
213402428

LL Sample # SW 8797812
LL Group # 1756832
Account # 16657

Project Name: MHIC

Collected: 01/18/2017 12:55 by DH

Stantec

1060 Andrew Drive

Submitted: 01/19/2017 16:40

Suite 140

Reported: 01/31/2017 19:40

West Chester PA 19380

MHA15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201702144135	01/21/2017 15:19	Katelyn C Shober	n.a.
00394	pH in soil	SW-846 9045D modified	1	17026039403A	01/26/2017 21:00	Luz M Groff	1
00111	Moisture	SM 2540 G-1997	1	17027820003B	01/27/2017 13:29	Larry E Bevins	1

Sample Description: **MH-A-16(5.0) Grab Soil**
213402428

LL Sample # **SW 8797813**
LL Group # **1756832**
Account # **16657**

Project Name: **MHIC**

Collected: 01/18/2017 13:20 by DH

Stantec

1060 Andrew Drive

Submitted: 01/19/2017 16:40

Suite 140

Reported: 01/31/2017 19:40

West Chester PA 19380

MHA16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/kg	ug/kg	
10237	Benzene	71-43-2	N.D.	0.5	0.81
10237	Ethylbenzene	100-41-4	1	1	0.81
10237	Isopropylbenzene	98-82-8	N.D.	1	0.81
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.81
10237	Naphthalene	91-20-3	N.D.	1	0.81
10237	Toluene	108-88-3	N.D.	1	0.81
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.81
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.81
10237	Xylene (Total)	1330-20-7	6	1	0.81
GC Volatiles		SW-846 8015B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.6	25.05
Wet Chemistry		SW-846 9045D modified	Std. Units	Std. Units	
00394	pH in soil	n.a.	6.99	0.0100	1
	The pH was measured in water at 20.1 C.				
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	18.6	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.				

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	UST Unleaded 8260+TMBs (Soil)	SW-846 8260B	1	X170302AA	01/31/2017 02:04	Stephen C Nolte	0.81
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201702144127	01/18/2017 13:20	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201702144127	01/18/2017 13:20	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201702144127	01/18/2017 13:20	Client Supplied	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	17026A31A	01/27/2017 02:15	Marie D Beamenderfer	25.05

Sample Description: MH-A-16(5.0) Grab Soil
213402428

LL Sample # SW 8797813
LL Group # 1756832
Account # 16657

Project Name: MHIC

Collected: 01/18/2017 13:20 by DH

Stantec

1060 Andrew Drive

Submitted: 01/19/2017 16:40

Suite 140

Reported: 01/31/2017 19:40

West Chester PA 19380

MHA16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201702144135	01/21/2017 15:10	Katelyn C Shober	n.a.
00394	pH in soil	SW-846 9045D modified	1	17026039403A	01/26/2017 21:00	Luz M Groff	1
00111	Moisture	SM 2540 G-1997	1	17027820003B	01/27/2017 13:29	Larry E Bevins	1

Quality Control Summary

Client Name: Stantec
Reported: 01/31/2017 19:40

Group Number: 1756832

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	MDL
	ug/kg	ug/kg
Batch number: Q170301AA	Sample number(s): 8797796,8797799-8797801,8797808,8797811	
Benzene	N.D.	25
Ethylbenzene	N.D.	50
Isopropylbenzene	N.D.	50
Methyl Tertiary Butyl Ether	N.D.	25
Naphthalene	N.D.	50
Toluene	N.D.	50
1,2,4-Trimethylbenzene	N.D.	50
1,3,5-Trimethylbenzene	N.D.	50
Xylene (Total)	N.D.	50
Batch number: X170301AA	Sample number(s): 8797797,8797802-8797804,8797806,8797809-8797810	
Benzene	N.D.	0.5
Ethylbenzene	N.D.	1
Isopropylbenzene	N.D.	1
Methyl Tertiary Butyl Ether	N.D.	0.5
Naphthalene	N.D.	1
Toluene	N.D.	1
1,2,4-Trimethylbenzene	N.D.	1
1,3,5-Trimethylbenzene	N.D.	1
Xylene (Total)	N.D.	1
Batch number: X170302AA	Sample number(s): 8797798,8797805,8797807,8797812-8797813	
Benzene	N.D.	0.5
Ethylbenzene	N.D.	1
Isopropylbenzene	N.D.	1
Methyl Tertiary Butyl Ether	N.D.	0.5
Naphthalene	N.D.	1
Toluene	N.D.	1
1,2,4-Trimethylbenzene	N.D.	1
1,3,5-Trimethylbenzene	N.D.	1
Xylene (Total)	N.D.	1
	ug/l	ug/l
Batch number: Z170232AA	Sample number(s): 8797795	
Benzene	N.D.	0.5
Ethylbenzene	N.D.	0.5
Isopropylbenzene	N.D.	0.5
Methyl Tertiary Butyl Ether	N.D.	0.5
Naphthalene	N.D.	1
Toluene	N.D.	0.5
1,2,4-Trimethylbenzene	N.D.	0.5

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Stantec
Reported: 01/31/2017 19:40

Group Number: 1756832

Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
1,3,5-Trimethylbenzene	N.D.	0.5
Xylene (Total)	N.D.	0.5
	mg/kg	mg/kg
Batch number: 17026A31A	Sample number(s): 8797797,8797802-8797805,8797809-8797810,8797813	
TPH-GRO N. CA soil C6-C12	N.D.	0.5
Batch number: 17026A31B	Sample number(s): 8797796,8797798-8797801,8797806-8797808,8797811-8797812	
TPH-GRO N. CA soil C6-C12	N.D.	0.5

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/kg	ug/kg	ug/kg	ug/kg					
Batch number: Q170301AA	Sample number(s): 8797796,8797799-8797801,8797808,8797811								
Benzene	1000	1062.03	1000	1043.38	106	104	80-120	2	30
Ethylbenzene	1000	1092.01	1000	1065.19	109	107	80-120	2	30
Isopropylbenzene	1000	1089.3	1000	1066.1	109	107	76-120	2	30
Methyl Tertiary Butyl Ether	1000	1057.07	1000	1070.12	106	107	72-120	1	30
Naphthalene	1000	1135.63	1000	1086.57	114	109	53-120	4	30
Toluene	1000	1100.41	1000	1087.04	110	109	80-120	1	30
1,2,4-Trimethylbenzene	1000	1123.13	1000	1085.88	112	109	74-120	3	30
1,3,5-Trimethylbenzene	1000	1123.82	1000	1080.53	112	108	73-120	4	30
Xylene (Total)	3000	3254.86	3000	3218.74	108	107	80-120	1	30
Batch number: X170301AA	Sample number(s): 8797797,8797802-8797804,8797806,8797809-8797810								
Benzene	20	18.25	20	18.75	91	94	80-120	3	30
Ethylbenzene	20	18.09	20	18.9	90	95	80-120	4	30
Isopropylbenzene	20	18.15	20	19.15	91	96	76-120	5	30
Methyl Tertiary Butyl Ether	20	18.23	20	17.64	91	88	72-120	3	30
Naphthalene	20	17.94	20	17.33	90	87	53-120	3	30
Toluene	20	17.98	20	18.73	90	94	80-120	4	30
1,2,4-Trimethylbenzene	20	17.86	20	19.03	89	95	74-120	6	30
1,3,5-Trimethylbenzene	20	17.8	20	18.87	89	94	73-120	6	30
Xylene (Total)	60	53.65	60	56.06	89	93	80-120	4	30
Batch number: X170302AA	Sample number(s): 8797798,8797805,8797807,8797812-8797813								
Benzene	20	19.98	20	19.39	100	97	80-120	3	30
Ethylbenzene	20	20.25	20	19.66	101	98	80-120	3	30
Isopropylbenzene	20	20.75	20	20.04	104	100	76-120	3	30
Methyl Tertiary Butyl Ether	20	19.81	20	19.15	99	96	72-120	3	30
Naphthalene	20	19.92	20	18.67	100	93	53-120	6	30
Toluene	20	20.21	20	19.59	101	98	80-120	3	30
1,2,4-Trimethylbenzene	20	20.3	20	19.75	101	99	74-120	3	30
1,3,5-Trimethylbenzene	20	20.16	20	19.79	101	99	73-120	2	30

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

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Quality Control Summary

Client Name: Stantec
Reported: 01/31/2017 19:40

Group Number: 1756832

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/kg	LCS Conc ug/kg	LCSD Spike Added ug/kg	LCSD Conc ug/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Xylene (Total)	60	60.35	60	58.94	101	98	80-120	2	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: Z170232AA	Sample number(s): 8797795								
Benzene	20	17.98	20	18.44	90	92	78-120	3	30
Ethylbenzene	20	17.56	20	18.04	88	90	78-120	3	30
Isopropylbenzene	20	17.85	20	18.68	89	93	80-120	5	30
Methyl Tertiary Butyl Ether	20	18.25	20	18.5	91	92	75-120	1	30
Naphthalene	20	15.72	20	15.85	79	79	59-120	1	30
Toluene	20	18.38	20	18.96	92	95	80-120	3	30
1,2,4-Trimethylbenzene	20	17.35	20	17.75	87	89	75-120	2	30
1,3,5-Trimethylbenzene	20	16.97	20	17.34	85	87	75-120	2	30
Xylene (Total)	60	54.48	60	56.37	91	94	80-120	3	30
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 17026A31A	Sample number(s): 8797797,8797802-8797805,8797809-8797810,8797813								
TPH-GRO N. CA soil C6-C12	11	10.55	11	9.94	96	90	58-120	6	30
Batch number: 17026A31B	Sample number(s): 8797796,8797798-8797801,8797806-8797808,8797811-8797812								
TPH-GRO N. CA soil C6-C12	11	10.55	11	9.94	96	90	58-120	6	30
	Std. Units	Std. Units	Std. Units	Std. Units					
Batch number: 17026039402A	Sample number(s): 8797796-8797798								
pH in soil	7.00	7.01			100		95-105		
Batch number: 17026039402B	Sample number(s): 8797799-8797809								
pH in soil	7.00	7.01			100		95-105		
Batch number: 17026039403A	Sample number(s): 8797810-8797813								
pH in soil	7.00	7.05			101		95-105		
	%	%	%	%					
Batch number: 17027820003A	Sample number(s): 8797796-8797799,8797801-8797805								
Moisture	89.5	89.39			100		99-101		
Batch number: 17027820003B	Sample number(s): 8797806-8797813								
Moisture	89.5	89.39			100		99-101		
Batch number: 17029820001A	Sample number(s): 8797800								
Moisture	89.5	89.39			100		99-101		

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Stantec
Reported: 01/31/2017 19:40

Group Number: 1756832

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc Std. Units	DUP Conc Std. Units	DUP RPD	DUP RPD Max
Batch number: 17026039402A pH in soil	Sample number(s): 8797796-8797798 BKG: P797539 7.18	7.20	0	3
Batch number: 17026039402B pH in soil	Sample number(s): 8797799-8797809 BKG: 8797800 11.2	11.22	0	3
Batch number: 17026039403A pH in soil	Sample number(s): 8797810-8797813 BKG: 8797810 3.90	3.90	0	3
	%	%		
Batch number: 17027820003A Moisture	Sample number(s): 8797796-8797799,8797801-8797805 BKG: P797800 18.41	12.26	40*	5
Batch number: 17027820003B Moisture	Sample number(s): 8797806-8797813 BKG: 8797806 17.69	18.44	4	5
Batch number: 17029820001A Moisture	Sample number(s): 8797800 BKG: 8797800 20.49	19.2	7*	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: UST Unleaded 8260+TMBs (Soil)
Batch number: Q170301AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8797796	63	68	74	89
8797799	86	89	94	111
8797800	68	82	86	96
8797801	4*	72	77	82
8797808	72	84	87	92
8797811	88	90	97	118
Blank	88	97	97	94
LCS	97	101	105	102
LCSD	94	99	103	102
Limits:	50-141	54-135	52-141	50-131

Analysis Name: UST Unleaded 8260+TMBs (Soil)
Batch number: X170301AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8797797	102	107	100	100
8797802	102	106	99	102

*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Stantec
Reported: 01/31/2017 19:40

Group Number: 1756832

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: UST Unleaded 8260+TMBs (Soil)

Batch number: X170301AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8797803	102	107	103	98
8797804	101	103	98	101
8797806	99	98	102	100
8797809	102	107	99	102
8797810	100	101	102	100
Blank	101	100	100	94
LCS	100	102	101	101
LCSD	99	97	101	100
Limits:	50-141	54-135	52-141	50-131

Analysis Name: UST Unleaded 8260+TMBs (Soil)

Batch number: X170302AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8797798	101	104	99	103
8797805	100	101	101	102
8797807	97	101	104	99
8797812	96	100	101	98
8797813	99	107	99	103
Blank	101	102	99	94
LCS	100	101	101	101
LCSD	100	102	100	100
Limits:	50-141	54-135	52-141	50-131

Analysis Name: UST Unleaded + TMBs 8260B

Batch number: Z170232AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8797795	95	100	98	92
Blank	95	99	99	93
LCS	94	100	98	96
LCSD	94	100	99	97
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA soil C6-C12

Batch number: 17026A31A

	Trifluorotoluene-F
8797797	76
8797802	82
8797803	87
8797804	78
8797805	84
8797809	80
8797810	74

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

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P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Stantec
Reported: 01/31/2017 19:40

Group Number: 1756832

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH-GRO N. CA soil C6-C12

Batch number: 17026A31A

Trifluorotoluene-F	
8797813	83
Blank	89
LCS	95
LCSD	85
Limits:	50-142

Analysis Name: TPH-GRO N. CA soil C6-C12

Batch number: 17026A31B

Trifluorotoluene-F	
8797796	139
8797798	84
8797799	119
8797800	92
8797801	84
8797806	86
8797807	84
8797808	95
8797811	640*
8797812	106
Blank	97
LCS	95
LCSD	85
Limits:	50-142

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.



**Lancaster Laboratories
Environmental**

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 116657 Group # 1756832 Sample # 8797795-813

COC #519181

Client Information				Matrix		Analysis Requested				For Lab Use Only	
Client:		Acct. #:		Tissue		Preservation Codes				FSC:	
Project Name/ #:		PWSID #:		Ground						SCR#: 200269	
Project Manager:		P.O. #:		Surface						Preservation Codes	
Sampler:		Quote #:		NPDES						H=HCl T=Thiosulfate	
State where samples were collected:		For Compliance:		Potable						N=HNO ₃ B=NaOH	
		Yes <input type="checkbox"/> No <input type="checkbox"/>		Water						S=H ₂ SO ₄ O=Other	
Sample Identification		Collected		Soil <input checked="" type="checkbox"/> Sediment <input type="checkbox"/>						Remarks	
		Date	Time	Other: trip blank						* veils (PAPER unwashed gasoline short list) labels located on bag	
TB-20170118		1/12/17		X		2					
MH-A-1 (3.0-3.5)		1/18/17	0840	X		6					
MH-A-2 (5.0-5.5)			0968	X		6					
MH-A-3 (3.0-3.5)			0920	X		6					
MH-A-4 (2.0-2.5)			0940	X		6					
MH-A-5 (3.0-3.5)			1000	X		6					
MH-A-6 (2.0-2.5)			1040	X		6					
MH-A-7 (3.0-3.5)			1050	X		6					
MH-A-8 (5.0-5.5)			1100	X		6					
MH-A-9 (3.0-3.5)			1110	X		6					

Turnaround Time (TAT) Requested (please circle)		Relinquished by		Date		Time		Received by		Date		Time	
Standard		Bottle Storage		1/13/16		920		[Signature]		1/13/17		920	
Rush		[Signature]		1/13/17		1000		[Signature]		1/13/17		1000	
Date results are needed:		[Signature]		1/19/17		11:03		[Signature]		1/19/17		11:03	
E-mail address: mark.schaeffer@stantec.com		[Signature]		1/19/17		16:40		[Signature]		1/19/17		16:40	

Data Package Options (circle if required)				EDD Required? Yes No		Relinquished by Commercial Carrier:	
Type I (EPA Level 3 Equivalent/non-CLP)	Type VI (Raw Data Only)			If yes, format: _____		UPS _____ FedEx _____ Other _____	
Type III (Reduced non-CLP)	NJ DKQP TX TRRP-13			Site-Specific QC (MS/MSD/Dup)? Yes No		Temperature upon receipt 21.3.60C	
NYSDEC Category A or B	MA MCP CT RCP			(If yes, indicate QC sample and submit triplicate sample volume.)			

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 16657 Group # 1756832 Sample # 8797795-813

COC # 519182

Client Information				Matrix				Analysis Requested												For Lab Use Only			
Client: <u>Stantec</u>		Acct. #:		<input type="checkbox"/> Tissue <input type="checkbox"/> Sediment <input type="checkbox"/> Potable Water <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> NPDES <input type="checkbox"/> Other:		Preservation Codes PH 9045d TPH-GRO (C6-CL2) PADEP unneeded gasoline sheet 11/17												FSC: _____					
Project Name/ #: <u>213402428</u>		PWSID #:																SCR#: _____					
Project Manager: <u>Mark Schaeffer</u>		P.O. #:														Preservation Codes H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other							
Sampler: <u>Dane Hopkins</u>		Quote #:														Remarks							
State where samples were collected: <u>Pa</u>		For Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>														*veils (PADEP unneeded gasoline sheet 11/17) labels located on bag							
Sample Identification		Collected		Grab	Composite	Soil	Water	Other:	Total # of Containers														
		Date	Time																				
MH-A-10 (2.0-2.5)		1/18/17	1125	X		X			6	X	X	X											
MH-A-10 (3.0-3.5)			1135	X		X			6	X	X	X											
MH-A-11 (5.0-5.5)			1155	X		X			6	X	X	X											
MH-A-12 (2.0-2.5)			1215	X		X			6	X	X	X											
MH-A-12 (3.0-3.5)			1225	X		X			6	X	X	X											
MH-A-13 (2.0-2.5)			1235	X		X			6	X	X	X											
MH-A-14 (2.0-2.5)			1245	X		X			6	X	X	X											
MH-A-15 (3.0-3.5)			1255	X		X			6	X	X	X											
MH-A-16 (5.0-5.5)			1310	X		X			6	X	X	X											

Turnaround Time (TAT) Requested (please circle) Standard <input checked="" type="radio"/> Rush <input type="radio"/> (Rush TAT is subject to laboratory approval and surcharge.)				Relinquished by <u>Dane Hopkins</u> Date <u>1/19/17</u> Time <u>11:03</u>		Received by <u>Harry Weger</u> Date <u>1/19/17</u> Time <u>11:03</u>	
				Relinquished by <u>Harry Weger</u> Date <u>1/19/17</u> Time <u>16:40</u>			
Date results are needed: _____							
E-mail address: <u>mark.schaeffer@stantec.com</u>							
Data Package Options (circle if required) Type I (EPA Level 3 Equivalent/non-CLP) Type VI (Raw Data Only) Type III (Reduced non-CLP) NJ DKQP TX TRRP-13 NYSDEC Category A or B MA MCP CT RCP				EDD Required? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, format: _____		Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other <input checked="" type="checkbox"/>	
				Site-Specific QC (MS/MSD/Dup)? Yes <input type="checkbox"/> No <input type="checkbox"/> (If yes, indicate QC sample and submit triplicate sample volume.)		Temperature upon receipt <u>2.1-3.6</u> °C	

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The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 0216

Client: Stantec**Delivery and Receipt Information**

Delivery Method:	<u>ELLE Courier</u>	Arrival Timestamp:	<u>01/19/2017 16:40</u>
Number of Packages:	<u>2</u>	Number of Projects:	<u>1</u>
State/Province of Origin:	<u>PA</u>		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	No
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace \geq 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	2
Paperwork Enclosed:	Yes	Trip Blank Type:	N/A
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

*Unpacked by Ayesha Ahmad (10877) at 14:36 on 01/20/2017***Samples Chilled Details***Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.*

<u>Cooler #</u>	<u>Thermometer ID</u>	<u>Corrected Temp</u>	<u>Therm. Type</u>	<u>Ice Type</u>	<u>Ice Present?</u>	<u>Ice Container</u>	<u>Elevated Temp?</u>
1	8013596-IR	3.6	IR	Wet	Y	Bagged	N
2	8013596-IR	2.1	IR	Wet	Y	Bagged	N

Sample ID Discrepancy Details

<u>Sample ID on COC</u>	<u>Sample ID on Label</u>	<u>Comments</u>
MH-A-16(5.0-5.5)	MH-A-16 (3.0-3.5)	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	mg	milligram(s)
C	degrees Celsius	mL	milliliter(s)
cfu	colony forming units	MPN	Most Probable Number
CP Units	cobalt-chloroplatinate units	N.D.	none detected
F	degrees Fahrenheit	ng	nanogram(s)
g	gram(s)	NTU	nephelometric turbidity units
IU	International Units	pg/L	picogram/liter
kg	kilogram(s)	RL	Reporting Limit
L	liter(s)	TNTC	Too Numerous To Count
lb.	pound(s)	µg	microgram(s)
m3	cubic meter(s)	µL	microliter(s)
meq	milliequivalents	umhos/cm	micromhos/cm
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...
- W - The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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Additional Data Qualifiers

Qualifier	Definition
B	Detection in the Blank
Q0	LCS/LCSD Low
Q1	LCS/LCSD High
Q4	MS/MSD Out of Range
Q7	LCS/LCSD RPD
Q8	DUP RPD
Q9	MS/MSD RPD